Figure 1
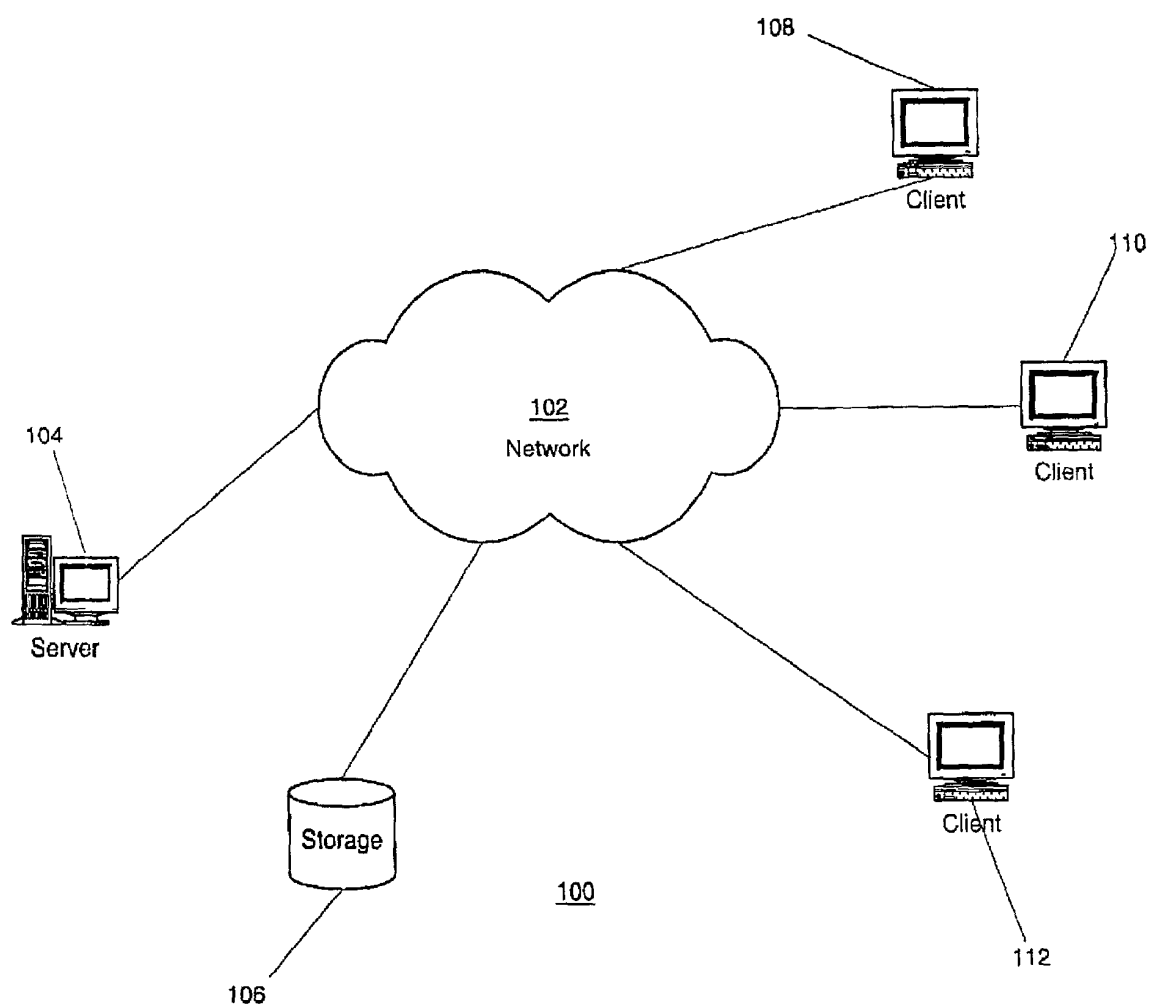
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108

Client

110

Client

102
Network

104

Server

Storage

100

Client

112

106

Figure 2

Figure 3

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Client

Processor
302

Host/PCI
Cache/
Bridge

308

Main Memory
304

Audio
Adapter
316

Bus   306

SCSI
Host
Bus
Adapter
312

Disk
326

Tape
328

CD-
ROM
330

LAN
Adapter
310

Expansion
Bus
Interface
314

Graphics
Adapter
318

Audio/Video
Adapter
319

300

Keyboard
and
Mouse
Adapter
320

Modem
322

Memory
324

332

Figure 4

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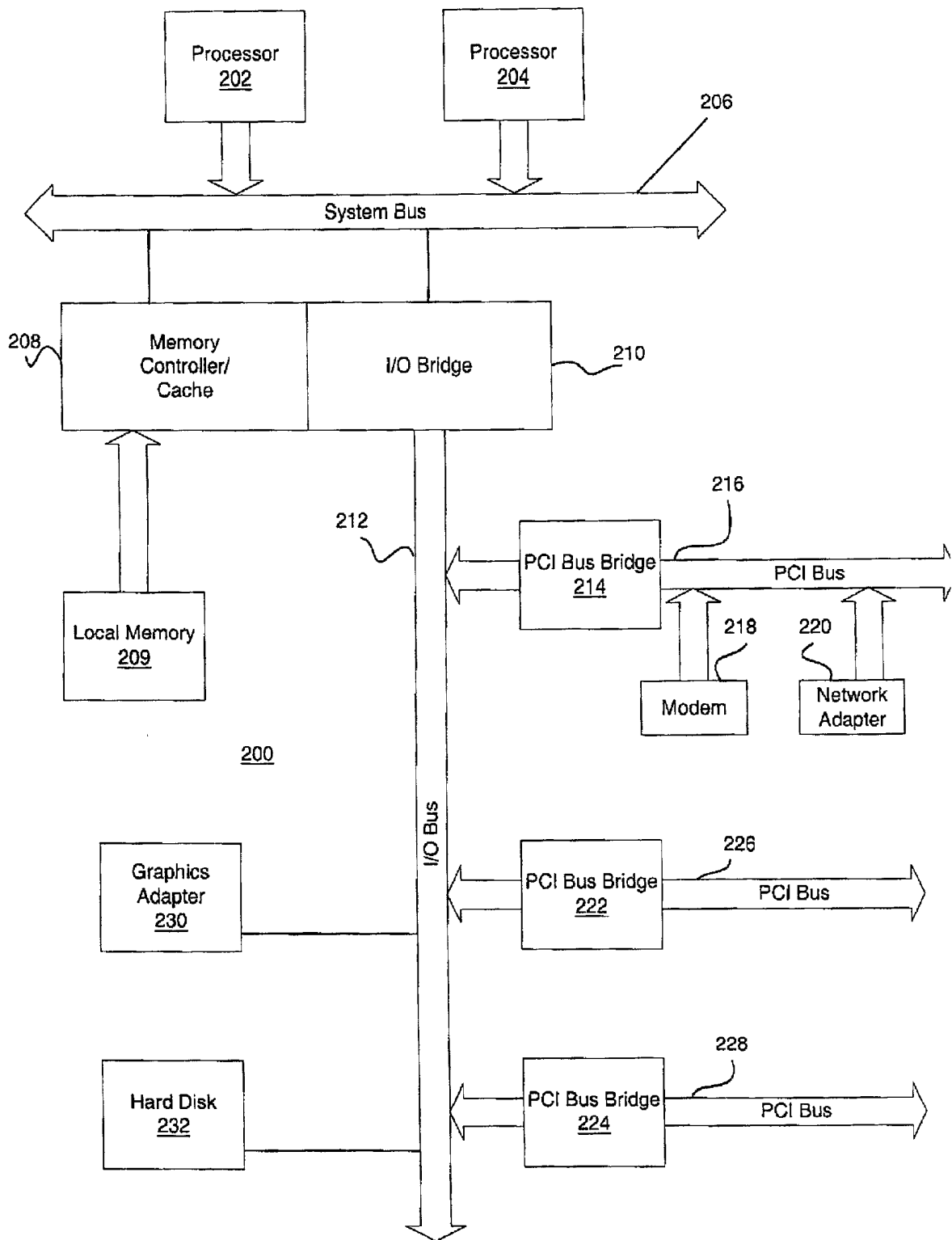on a Frame by Frame Basis
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Time

408 —◠◠ Video Frame 4

Text 4

— 418

Video Frame 3

406 —

Text 3

— 416

Video Frame 2

404 —

Text 2

— 414

Video Frame 1

402 —

Text 1

— 412

Figure 5

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Text 1

Text 2
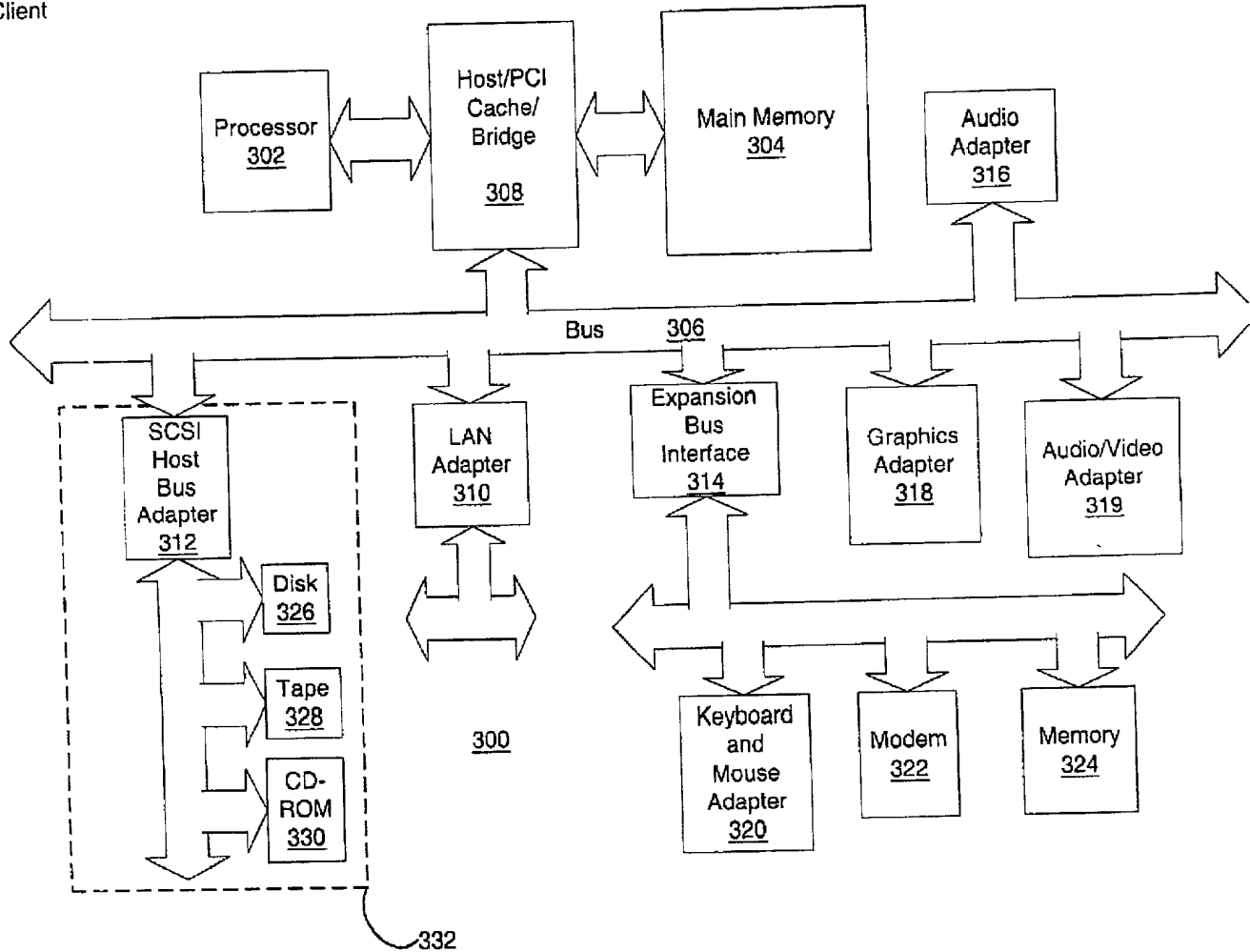
Text 3

Text 4

502

504

506

508

Figure 6

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600

Graphical User Interface
602

| Menus 604 | Preferences 608 | Navigation 606 |

Graphical Display
618

Filter
640

| Layout 620 | Rendering 622 | Window Management 624 |

Language Interpretation
612

| HTML 614 | Javascript 616 |

Communications
610

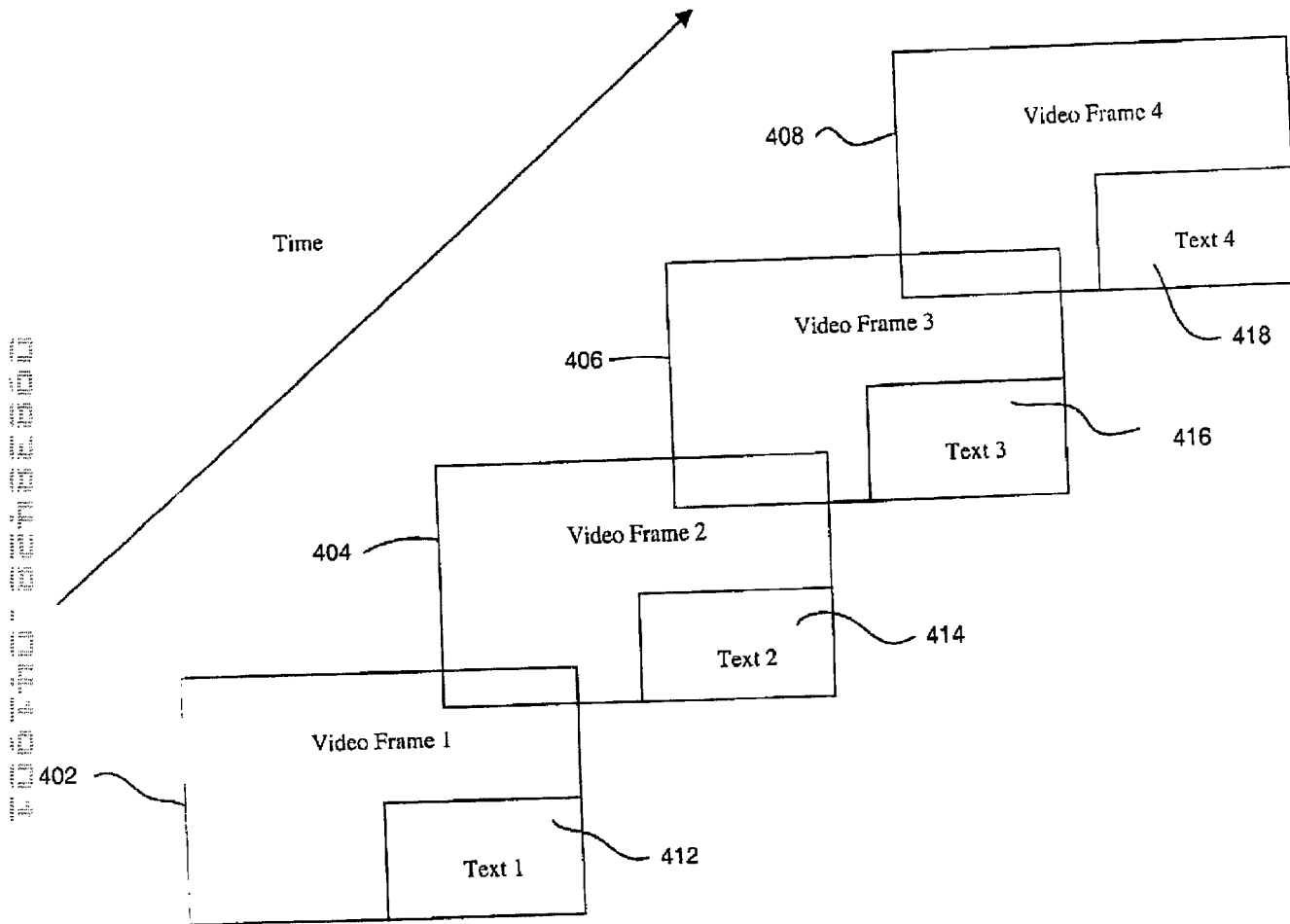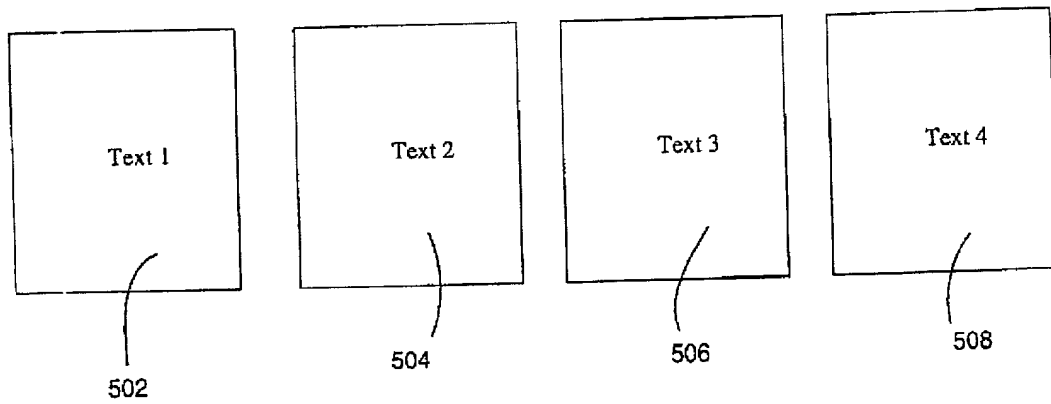# Figure 7

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```
                    ( Begin )
                        |
                        v
        +-------------------------------+
        |        Receive data.          |
        |            702                |
        +-------------------------------+
                        |
                        v
                 /--------------\
        NO------<  Does          >
                <  the data contain >
                <  video?         >
                 \     704      /
                    \--------/
                        |
                       YES
                        |
                        v
                 /--------------\
+-------------------+  <  Does          >
| Present data without| NO <  the user wish text to be >
| filtering text from | <---<  presented without video? >
| video.            |  <       708       >
|    706            |   \--------------/
+-------------------+        |
        |                   YES
        |                    |
        |                    v
        |        +-------------------------------+
        |        | Parse data to obtain textual  |
        |        |        information.           |
        |        |            712                |
        |        +-------------------------------+
        |                    |
        |                    v
        |        +-------------------------------+
        |        | Organize text according to    |
        |        | corresponding time segment    |
        |        | of video and present in text  |
        |        | frames on display.            |
        |        |            714                |
        |        +-------------------------------+
        |                    |
        |                    v
        +------------------( End )
```
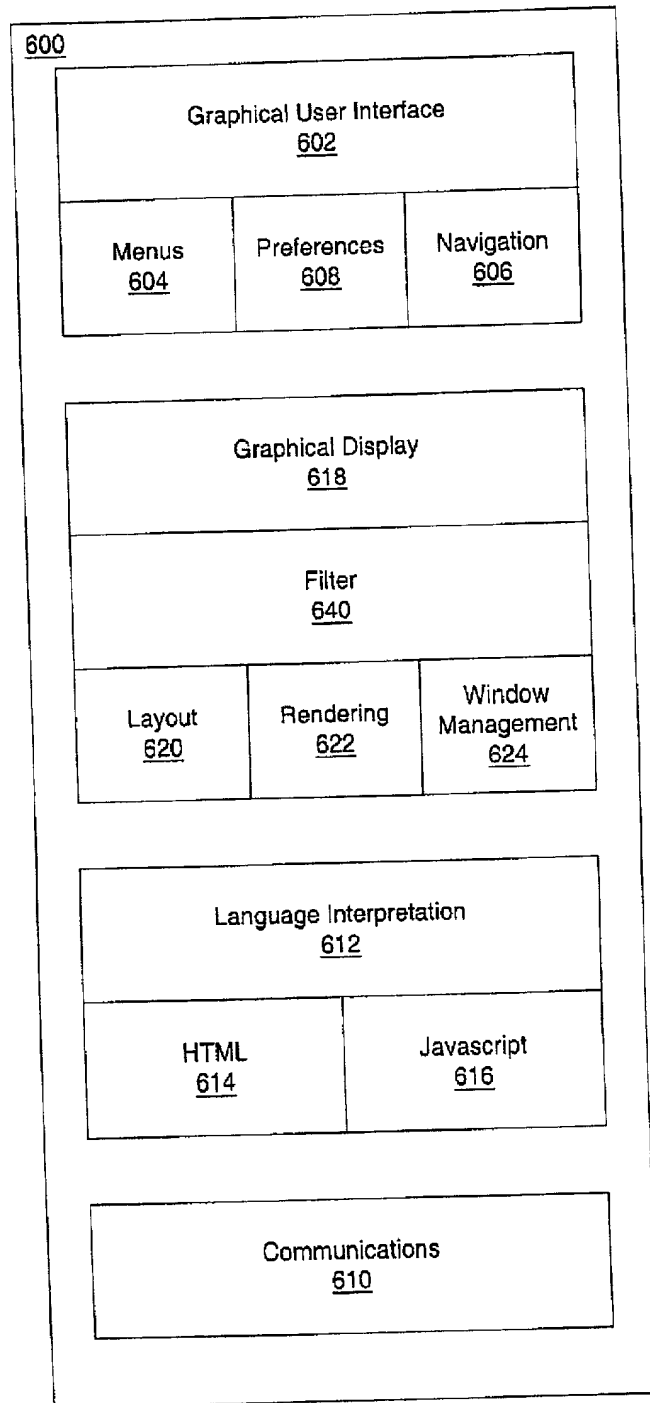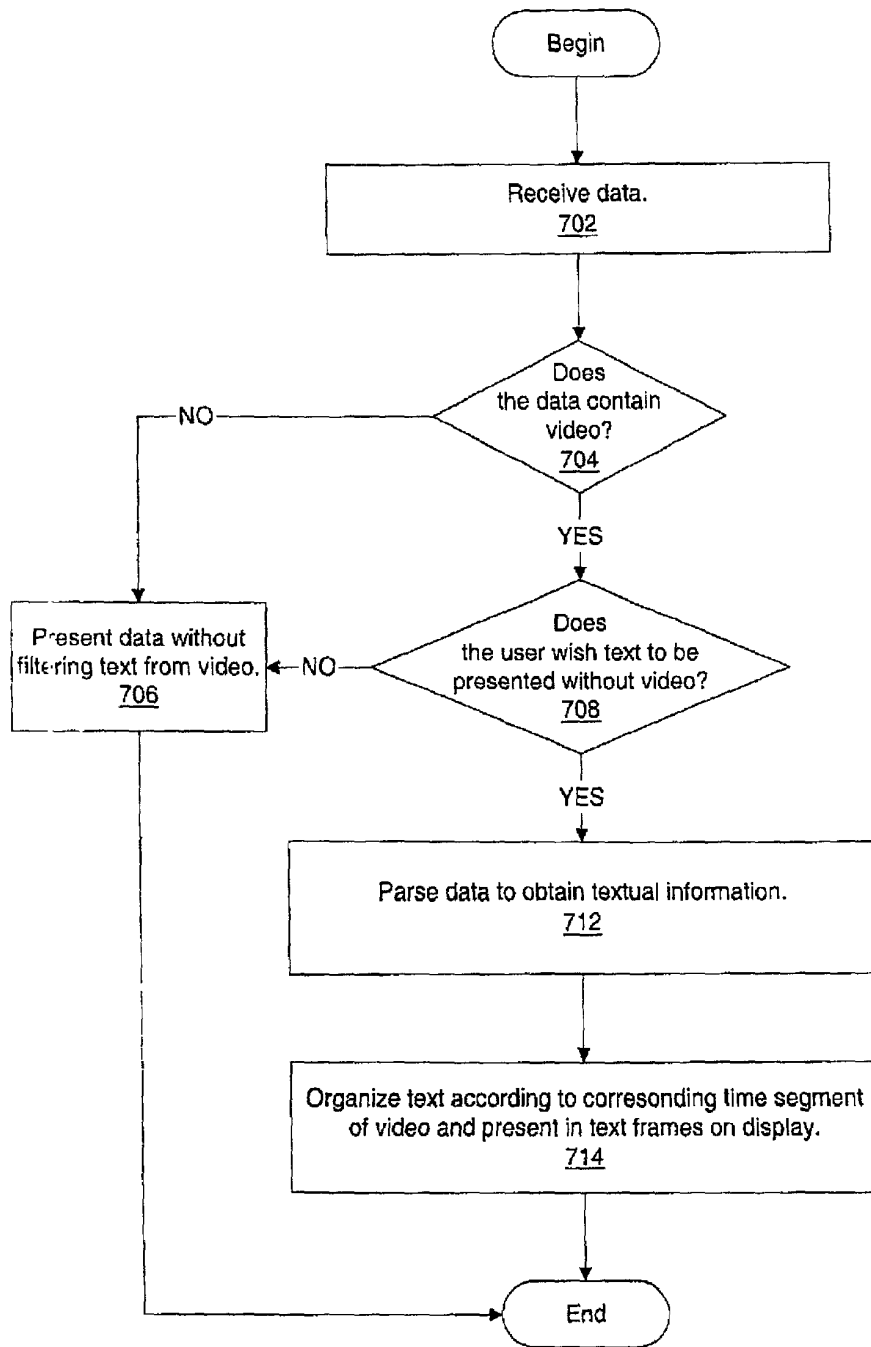
Figure 8

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Begin

Receive data.
802

Does
data contain video with
associated text?
804

NO

YES

Does
the user wish to be
presented with text in the absence of
moving images?
806

NO

Present data without modification.
806

YES

Determine which frames contain text
that has changed from previous text.
810

Present only video frames in which text
has changed.
812

End